

Claims

1. Combustion chamber (1) for a gas turbine (24) having at least one closed-circuit-cooled burner insert (3) which can be disposed in an inlet opening (2) of the combustion chamber (1) for the purpose of feeding and/or igniting a combustibile gas/air mixture, and having an outlet opening (4), at least one hot-gas-path component, specifically a component (5) of an inner wall of the combustion chamber (1), forming on its outer side opposite the hot-gas-path side (55), in conjunction with a planar shaped element (8) disposed thereabove, at least one channel (9) which is fluidically connected to a coolant source on the feed side and to a channel arrangement of the burner insert (3) on the discharge side.
2. Combustion chamber according to Claim 1, characterized in that a retaining element (14) is disposed on the outer side of the hot-gas-path component (5).
3. Combustion chamber according to Claim 2, characterized in that the retaining element (14) can be centrally fixed to the baseplate (5) by means of at least one mounting element (15).
4. Combustion chamber according to Claim 2 or 3, characterized in that the retaining element (14) has a bearing surface (54) on its end areas.
5. Combustion chamber according to one of Claims 1 to 4, characterized in that the shaped element (8) is covered by at least one cover element (16).
6. Combustion chamber according to one of Claims 1 to 5, characterized in that the hot-gas-path component (5) is a

planar baseplate (5) disposed in the area of the inlet opening (2), simultaneously forming part of the inner wall of the combustion chamber (1) and being the means whereby the burner insert (3) can be fixed.

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7. Combustion chamber according to Claim 6, characterized in that the baseplate (5) has a lateral cutout (10) for accommodating the burner insert (3).

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8. Combustion chamber according to Claim 6 or 7, characterized in that the baseplate (5) has a least one mounting flange (11, 41) for mounting on the inlet opening (2).

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9. Combustion chamber according to Claim 8, characterized in that a sealing element (51) can be disposed between the mounting flange (11, 41) and the mounting area of the inlet opening (2).

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10. Combustion chamber according to Claim 9, characterized in that the sealing element (51) is of annular form.

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11. Combustion chamber according to one of Claims 7 to 10, characterized in that the cutouts (10) of two adjacently disposed baseplates (5) form an opening (12) enclosing the burner insert (3).

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12. Combustion chamber according to one of Claims 6 to 11, characterized in that a connecting collar (17) can be disposed between the baseplate (5) and the burner insert (3).

13. Combustion chamber according to Claim 12, characterized in that the connecting collar (17) is formed from two axially extending half shells.
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14. Combustion chamber according to Claim 12 or 13, characterized in that the connecting collar (17) has at least one radial bore (18) which is connected at one end to the channel (9) with its opposite end opening into an annular groove (20) on the inner
- 10 circumference (19) of the connecting collar (17).
15. Combustion chamber according to one of Claims 12 to 14, characterized in that the connecting collar (17) has at least one radial bore (18) which is connected at one end
- 15 to the channel (44) with its opposite end opening into an annular groove (20) on the inner circumference (19) of the connecting collar (17).
16. Combustion chamber according to Claim 14 or 15, characterized
- 20 in that the annular groove (20) is fluidically connected to the channel arrangement of the burner insert (3).
17. Combustion chamber according to one of Claims 12 to 16, characterized in that a sealing element (48), which can be
- 25 fixed by means of the connecting collar (17), can be disposed between adjoining sides of two adjacently disposed baseplates (5).
18. Burner insert (3) for disposition in an inlet opening (2) of
- 30 a combustion chamber (1) according to one of the preceding claims, having a first area (22) connected to an outer wall (21) of the combustion chamber (1) and having a second area (23) detachably connected to the latter and facing the combustion chamber (1), the second area (23) being connected

to the inlet opening (2) of the combustion chamber (3) via the baseplate (5).

19. Gas turbine (24) having a blade arrangement (25) consisting
5 of a flow path (26) with rotor blades (28) disposed on a rotor (27) and fixed stationary blades (30), a combustion chamber (1) according to one of Claims 1 to 17 being disposed upstream of the blade arrangement (25) in the flow direction (31) of a gas flow.
- 10 20. Gas turbine (24) according to Claim 19, characterized in that a burner insert (3) according to Claim 18 is disposed on the combustion chamber (1).